

EXISTING CLAIMS

1. (Previously Presented) A method of producing a compact movable structure for a light shaping unit comprising:

forming a light shaping unit from a material provided on a carrier of another material;

and

forming a micromechanical structure from the carrier which is adapted to move the light shaping unit,

wherein the light shaping unit is formed before the micromechanical structure is formed.

2. (Previously Presented) The method according to claim 1, further depositing the material for the light shaping unit on the carrier.

3. (Previously Presented) The method according to claim 2, further comprising:
spinning the material for the light shaping unit on the carrier.

4. (Previously Presented) The method according to claim 1, wherein the light shaping unit is formed through embossing.

5. (Previously Presented) The method according to claim 1, wherein the micromechanical structure is formed under the light shaping unit.

6. (Previously Presented) The method according to claim 5, wherein the forming of the micromechanical structure comprises forming the micromechanical structure from above.

7. (Previously Presented) The method according to claim 1, wherein the forming of the micromechanical structure comprises forming an opening from the bottom of the carrier in a direction towards the light shaping unit in order to provide a light passage channel.

8. (Previously Presented) The method according to claim 7, wherein the light shaping unit serves as an etch stop in the forming of the opening.

9. (Previously Presented) The method according to claim 7 or 8, further comprising:
attaching an optical component to the bottom side of the micromechanical structure—in order to enable a projection of light on or a reception of light from the light shaping unit through the light passage channel.

10. (Previously Presented) The method according to claim 7, wherein the light passage channel is a cavity.

11. (Previously Presented) The method according to claim 7, wherein the light passage channel is a waveguide.

12. (Previously Presented) The method according to claim 1, wherein the material for the light shaping unit is a polymer.

13. (Previously Presented) The method according to claim 1, wherein the carrier comprises silicon.

14. (Previously Presented) The method according to claim 1, wherein the light shaping unit is a lens.